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## **WMG Technical Training in Stream Restoration October 6-8, 2011 Course Announcement**

Watershed Management Group is accepting applications for the 3-day *Stream Restoration Watershed Technical Training* course to be held Thursday, October 6 through Saturday, October 8, 2011, in Tucson, AZ. Applications will be accepted on a rolling basis through September 1, 2011, with priority given to those who apply before August 1, 2011.

This course is a part of WMG's Watershed Technical Trainings (WTT) program, which provides advanced trainings in green infrastructure, water harvesting, eco-sanitation, and watershed restoration. For program updates and new courses, visit <http://watershedmg.org/tech-trainings>. WMG's goal is to transfer this advanced technical knowledge to professionals, educators, and community activists who will integrate these practices into their work and teach others.

### **Course Description - Watershed Technical Training in Stream Restoration**

Through WMG's Technical Training in Stream Restoration, participants will gain a basic understanding of how desert streams and arroyos function, how they change over time, and the human influence on them, both positive and negative. This hands-on training will include site assessment, design, and implementation of small-scale restoration features. Emphasis will also be placed on urban wash restoration approaches and practices from backyard to larger drainage scales.

This training is open to professionals, educators, and activists from a wide variety of backgrounds who possess basic knowledge of resource and/or landscape management and related concepts. WMG's Water Harvesting Certification course is recommended, though not required, as a prerequisite.

The course curriculum includes:

- Classroom lectures
- Site assessment, surveying, design, and planning sessions
- Hands-on restoration workshops
- Tour of local restoration sites

### **Registration Deadlines**

To be considered for the October 6-8 course, applicants must submit a one-page resume and application form by the following dates:

<b>Registration Category</b>	<b>Fee</b>	<b>Application Deadline</b>
Early Registration	\$400	August 1, 2011
Regular Registration	\$500	<del>September 1, 2011</del> Extended to September 9, 2011
Early Registration – Alumni Rate*	\$350	August 1, 2011
Regular Registration – Alumni Rate*	\$450	<del>September 1, 2011</del> Extended to September 9, 2011

\*Alumni rates are available to previous participants in WMG’s Water Harvesting Certification Course or Watershed Technical Trainings.

Once accepted into the course, applicants have two weeks to make full payment in order to reserve a spot.

### **Scholarships**

WMG offers scholarships of \$100 to \$150 to help defray the cost of the course. To be considered for a scholarship, please include an explanation of your financial need in your application.

### **Course Requirements and Qualifications**

Application to the Stream Restoration Technical Training is competitive; it is possible WMG may not be able to accommodate all applicants. Preference will be given to professionals in a relevant field who have the ability to apply the knowledge and skills gained in this training in a direct way.

Background knowledge, course work and/or degree, and work experience in natural resource management and/or environmental restoration is recommended as a prerequisite for this course. WMG's Water Harvesting Certification course may also serve as a prerequisite.

In addition, all applicants are required to commit to the entire three-day training, including all course sessions, readings, and written or design assignments.

### **Instructors**

**Van Clothier** graduated from the University of California at San Diego in 1982 with a degree in physics. His firm, Stream Dynamics, Inc., specializes in turning runoff and erosion problems into water harvesting opportunities with water harvesting earth works, urban stormwater retrofits, and riparian and wetland restoration in both urban and wildland settings.

Van has worked extensively in New Mexico and Arizona on a variety of restoration projects with regional drylands stream restoration and water harvesting experts including Bill Zeedyk, and Brad Lancaster. He has completed the River Restoration and Natural Channel Design stream restoration course schedule taught by Dr. Dave Rosgen. He is the co-author with Bill Zeedyk of a book called *Let the Water Do the Work: Induced Meandering, an Evolving Method for*

*Restoring Incised Channels*, published November, 2009. He received his Water Harvesting Certification from Watershed Management Group in 2011. Recent projects include designing water harvesting stormwater retrofits for the City of Santa Fe, and restoring a very large ciénega (desert marsh) in the bootheel of New Mexico.

**Craig Sponholtz** earned an M.A. in Agro-Ecological Restoration from Prescott College and studied Permaculture at Bill Mollison's Tagari Farm in Australia. He spent a decade with the U.S. Forest Service in New Mexico and Arizona working in Wildland Fire Management and Fire Use. Craig has had extensive training and hands-on experience in passive water harvesting, erosion control and stream restoration that is well complimented by a background in fine art sculpture and ceramics. Craig founded Dryland Solutions in 2003 and continues to design and implement watershed restoration projects throughout the Southwest. He is an expert heavy equipment operator specializing in low impact techniques and artistic in-stream boulder masonry. Craig teaches a wide variety of watershed restoration techniques that foster beneficial relationships between people and the watersheds they live in.

## **Curriculum Details**

- 1) Introduction to Stream and Wash Restoration
  - a) Restoring Incised Channels through Induced Meandering
  - b) Introduction to "Reading the Landscape"
  - c) Small-Scale Erosion Control
  - d) Urbanization & Benefits of Urban Water Harvesting
  - e) Stream Restoration in Urban Settings
  - f) Restoration Techniques & Features
  
- 2) Application and Implementation
  - a) Project Design & Layout
  - b) Reading the Landscape On-Site
  - c) Hands-on Restoration Workshops, including:
    - Assessment of recent history of a watercourse
    - Basic surveying techniques
    - Identification of problems and solutions
    - Construction of watershed restoration earthworks
  
- 3) Policy & Development
  - a) Introduction to Policy & Permitting Impacting Urban & Rural Restoration
  - b) Urban Stream Restoration as an Economic & Community Development Tool

## **Contact**

If you have questions about Stream Restoration course or other Watershed Technical Trainings, please contact Tory Syracuse at [tsyracuse@watershedmg.org](mailto:tsyracuse@watershedmg.org) or 520-396-3266. You can learn more about WMG by visiting our website at [watershedmg.org](http://watershedmg.org) or about the Technical Trainings program at <http://watershedmg.org/tech-trainings>.